ENTERED

09~? /0(05 O/PE

Serial Number: 09/900,715

CRF Processing Date: 1/24/2002
Edited by: _____
Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII

- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

- ☐ Edited a format error in the Current Application Data section, specifically:

  _____

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

- ☐ Added the mandatory heading and subheadings for "Current Application Data".

- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

  _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

  _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- ☐ Inserted colons after headings/subheadings. Headings edited included:

  _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

  _____

- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____.

- ☐ Inserted mandatory headings, specifically: _____

- ☐ Corrected an obvious error in the response, specifically:

  _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

- ☐ Corrected an error in the Number of Sequences field, specifically:

  _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- ☐ Other: _____

  _____

  _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#5

```
        RAW SEQUENCE LISTING                      DATE: 01/24/2002
        PATENT APPLICATION: US/09/900,715         TIME: 09:17:46

        Input Set : N:\jumbos\900715.txt
        Output Set: N:\CRF3\01242002\I900715.raw

  4 <110> APPLICANT: Allen, Keith D.
  6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING PROTEIN
  7        PHOSPHATASE 2C GENE DISRUPTIONS
 10 <130> FILE REFERENCE: R-775
 12 <140> CURRENT APPLICATION NUMBER: US 09/900,715
 13 <141> CURRENT FILING DATE: 2001-07-06
 15 <150> PRIOR APPLICATION NUMBER: US 60/216,104
 16 <151> PRIOR FILING DATE: 2000-07-06
 18 <150> PRIOR APPLICATION NUMBER: US 60/223,386
 19 <151> PRIOR FILING DATE: 2000-08-07
 21 <160> NUMBER OF SEQ ID NOS: 4
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 996
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Mus musculus
 30 <400> SEQUENCE: 1
 31 gagactgcag cagaatatgt aaaatctcga ctcccagagg ctcttaagca gcaccttcag 60
 32 gattatgaga aggacaaaga aaacagtgtt ctgacctacc agaccatcct cgagcagcag 120
 33 atcttgtcaa ttgaccggga aatgctggaa aagttgacag tctcctatga tgaagcaggc 180
 34 acaacgtgtt tgatcsctct actctcagat aaagacctca ccgtggccaa cgttggtgac 240
 35 tctcggggag tcttgtgtga caaagatggc aatgccatcc ccttgtctca cgatcacaag 300
 36 ccttaccagc tgaaggaaag gaagaggata aagagagctg gtgggttcat cagctttaat 360
 37 ggctcctgga gggtccaggg aatcctagcc atgtctcgat ccctgggaga ctatccactg 420
 38 aaaaatctca acgtggtcat cccagaccca gacatcttga cctttgacct ggacaagctg 480
 39 cagccggagt tcatgatctt ggcctcagat ggcctgtggg atgctttcag caatgaagaa 540
 40 gcggttcgat tcatcaagga gcgcttggat gagccccact ttggggccaa aagcatcgtc 600
 41 ctgcagtcct tttacagagg ctgccctgac aacatcactg tcatggtggt gaagttcagg 660
 42 aatagtagca aaacagaaga gcactgaacc ctgccagatc tcagctgccc caaactagag 720
 43 gactctcaac atactgttct cttcatgtag taaaaggtgt gggtataatt aggatcatgc 780
 44 gtcccaacac agaaccccct tccctgatgg ccttgaatcc ctttggagta ctgagcagag 840
 45 ggttggttcc cttgctgaca ccgcagaggc tgctaagttt gtgtcccccc agcccttcta 900
 46 tcagtgtttg aaacacatac gtaggtagcc acagatccca catatgaggc aaaggaaagg 960
 47 caggccatat gttttccttc ttaataatgt actttt                          996
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 228
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Mus musculus
 54 <220> FEATURE:
 55 <221> NAME/KEY: VARIANT
 56 <222> LOCATION: 66
 57 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 59 <400> SEQUENCE: 2
```

RAW SEQUENCE LISTING   DATE: 01/24/2002
PATENT APPLICATION: US/09/900,715   TIME: 09:17:47

Input Set : N:\jumbos\900715.txt
Output Set: N:\CRF3\01242002\I900715.raw

```
60 Glu Thr Ala Ala Glu Tyr Val Lys Ser Arg Leu Pro Glu Ala Leu Lys
61  1               5                  10                  15
62 Gln His Leu Gln Asp Tyr Glu Lys Asp Lys Glu Asn Ser Val Leu Thr
63             20                  25                  30
64 Tyr Gln Thr Ile Leu Glu Gln Gln Ile Leu Ser Ile Asp Arg Glu Met
65         35                  40                  45
66 Leu Glu Lys Leu Thr Val Ser Tyr Asp Glu Ala Gly Thr Thr Cys Leu
67     50                  55                  60
68 Ile Xaa Leu Leu Ser Asp Lys Asp Leu Thr Val Ala Asn Val Gly Asp
69 65                  70                  75                  80
70 Ser Arg Gly Val Leu Cys Asp Lys Asp Gly Asn Ala Ile Pro Leu Ser
71             85                  90                  95
72 His Asp His Lys Pro Tyr Gln Leu Lys Glu Arg Lys Arg Ile Lys Arg
73             100                 105                 110
74 Ala Gly Gly Phe Ile Ser Phe Asn Gly Ser Trp Arg Val Gln Gly Ile
75             115                 120                 125
76 Leu Ala Met Ser Arg Ser Leu Gly Asp Tyr Pro Leu Lys Asn Leu Asn
77     130                 135                 140
78 Val Val Ile Pro Asp Pro Asp Ile Leu Thr Phe Asp Leu Asp Lys Leu
79 145                 150                 155                 160
80 Gln Pro Glu Phe Met Ile Leu Ala Ser Asp Gly Leu Trp Asp Ala Phe
81             165                 170                 175
82 Ser Asn Glu Glu Ala Val Arg Phe Ile Lys Glu Arg Leu Asp Glu Pro
83             180                 185                 190
84 His Phe Gly Ala Lys Ser Ile Val Leu Gln Ser Phe Tyr Arg Gly Cys
85             195                 200                 205
86 Pro Asp Asn Ile Thr Val Met Val Val Lys Phe Arg Asn Ser Ser Lys
87     210                 215                 220
88 Thr Glu Glu His
89 225
92 <210> SEQ ID NO: 3
93 <211> LENGTH: 200
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Targeting vector
100 <400> SEQUENCE: 3
101 gctggtggcc ttggcagtga cgaaggtgaa ggaggggtgc ttgtggctca gctctgttgc 60
102 agcagaccag cttgtggtac actcacccag accggaacaa gctaacaggc tccctctgtc 120
103 tttccaggtg ggttcatcag ctttaatggc tcctggaggg tccagggaat cctagccatg 180
104 tctcgatccc tgggagacta                                             200
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 200
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Targeting vector
114 <400> SEQUENCE: 4
115 tcgtcctgca gtccttttac agaggctgcc ctgacaacat cactgtcatg gtggtgaagt 60
```

RAW SEQUENCE LISTING   DATE: 01/24/2002
PATENT APPLICATION: **US/09/900,715**   TIME: 09:17:47

Input Set : **N:\jumbos\900715.txt**
Output Set: **N:\CRF3\01242002\I900715.raw**

```
116 tcaggaatag tagcaaaaca gaagggcact gaaccctgcc agatctcagc tgccccaaac 120
117 tagaggactc tcaacatact gttctcttca tgtagtaaaa ggtgtgggta taattaggat 180
118 catgcgtccc aacacagaac                                            200
```

VERIFICATION SUMMARY   DATE: 01/24/2002
PATENT APPLICATION: US/09/900,715   TIME: 09:17:48

Input Set : **N:\jumbos\900715.txt**
Output Set: **N:\CRF3\01242002\I900715.raw**

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2